

experience	is a fundamental course, technology in the Surveying and Geospatial Engineering discipline have changed rapidly in the last two decades and this course now presents many new and exciting technologies such as GPS, GIS, Remote Sensing from satellites and UAVs (drones), laser scanning as well as levelling and total stations. I have run courses in 2020 using BBCU. I am suitably experienced with BBCU software and anticipate that students are similarly comfortable. It appears that BBCU works best with the Chrome browser on PCs, and Safari on iPads. I can help students to master the functionality live in lectures when you attend to enhance your experience.
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HANDBOOK DESCRIPTION

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INFORMATION ABOUT THE COURSE

COURSE PROGRAM

Week No. (Start Week)	Lectures Tuesday: 9–11 EEG23/ online	Lectures Wednesday: 14-16 EEG23/online	Workshop/ Prac Thursday: 9-11 CE G8/ field	Workshop/ Prac Thursday: 11-1pm CE G8/ field
1		L1		
2	L2	L3		

3**L4**

EXPECTED LEARNING OUTCOMES

Learning Outcome	EA Stage 1 Competencies
1. <i>Practice some basic field surveying techniques such as handheld GPS and GIS, levelling, and use of a total station to acquire raw field observations and set out of a minor structure.</i>	PE1.2, PE1.5, PE2.2, PE2.3
2. <i>Develop efficient field work practices such as skill with various surveying instruments, forward planning for survey tasks, production of clear field notes and redundant field checks to ensure accuracy.</i>	PE1.1, PE1.5, PE2.1, PE2.2, PE2.4, PE3.2, PE3.3, PE3.6
3. <i>Undertake basic survey computations from raw field observations to support a range of surveying and engineering applications such as levelling and terrain representation, area and volume calculations, traversing and construction set out.</i>	PE1.1, PE1.2, PE2.3, PE3.4
4. <i>Understand the theory behind the various surveying and geospatial techniques presented in this course and be able to critically assess the quality of geospatial data.</i>	PE1.1, PE1.2, PE3.1

ASSESSMENT

Field practicals:

Online Assignment/ Quiz

Mid-session test:

Final Exam:

Assessment for the course includes:

Comments:

Marking scheme:

Penalties for field practicals:

Feedback:

Objectives and learning outcomes:

Appendix A: Engineers Australia (EA) Competencies

Page 1 Competencies for Professional Engineers

	Program Intended Learning Outcomes
PE1: Knowledge and Skill Base	